

Appln No. 09/718,725

**PATENT APPLICATION****In the claims:****1-75 (Cancelled)**

**76. (new)** An antibody or fragment thereof which specifically binds to an OPG polypeptide consisting of residues 22-401 inclusive of SEQ ID NO:121.

**77. (new)** An antibody or fragment thereof which specifically binds to an OPG polypeptide consisting of residues 22-401 inclusive of SEQ ID NO:123.

**78. (new)** An antibody or fragment thereof which specifically binds to an OPG polypeptide consisting of residues 22-401 inclusive of SEQ ID NO:125.

**79. (new)** The antibody or fragment of Claim 78 which specifically binds to an OPG polypeptide consisting of residues 22-185, 22-189, 22-194 or 22-201 inclusive as shown in SEQ ID NO:125.

**80. (new)** The antibody or fragment of Claims 76, 77, 78 or 79 which is a monoclonal antibody.

**81. (new)** The antibody or fragment of Claims 76, 77, 78 or 79 which is a chimeric antibody.

**82. (new)** The antibody or fragment of Claims 76, 77, 78 or 79 which is a CDR-grafted antibody.

**83. (new)** The antibody or fragment of Claims 76, 77, 78 or 79 which is a humanized antibody.

**84. (new)** The antibody or fragment of Claims 76, 77, 78 or 79 which is a human antibody.

**85. (new)** A method for detecting the presence of OPG in a biological sample comprising:

incubating the sample with the antibody or fragment of Claims 76, 77, 78 or 79 under conditions that allow binding of the antibody to OPG; and

Appln No. 09/718,725

**PATENT APPLICATION**

detecting the bound antibody.

86. (new) A method for removing OPG from a biological sample comprising:  
contacting the sample with the antibody or fragment of Claims 76, 77, 78 or 79 under conditions that allow binding of the antibody to OPG; and  
removing the antibody from the sample.